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☐ 1. Document ID: US 20050202258 A1

AB: A gypsum board having roughened surface glass fiber reinforcement. The roughened surface of glass fiber is created by incorporating nano or micro particles of colloidal silica or clay or other inorganic particles in a silane based sizing composition. The sizing coating is partially or completely cured and incorporated in gypsum wet mix either as additions of chopped fibers or as placement of roughened surface glass fiber mats at selected locations within a cast gypsum sheet. The roughened surface of glass fiber with nano or micro particles compliantly bonded with silane polymer transfers load from gypsum to glass fibers providing improved strength and flexure resistance of gypsum boards.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 2. Document ID: US 6187697 B1

AB: The invention includes fibrous nonwoven multiple layer mats having at least two layers with a body portion layer and a surface portion layer having fine fibers and/or particles therein, both layers being bonded together and to each other with a same resin binder. Preferably most or essentially all of the particles and/or fibers in the surface layer are larger than openings between the fibers in the body portion of the mat. The mats produced according to this invention are useful as a facer for all types of boards such as wood boards, wood product boards, insulating boards and hard boards of all types, and also as reinforcement and dimensional stabilizers for making a large number of novel laminate products and for a myriad of other uses. These mats are made on a wet laid nonwoven mat machine with a modification to the binder preparation system, an inventive step in the preparation of the binder and in the selection of ingredients for a binder slurry.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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